

## EAST Search History

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| S1    | 9      | ("5281346" "5284532" "5540788" "6172013" "6242394" "6419769").PN. ("2842112" "6136268").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2007/03/22 11:17 |
| S2    | 4      | JP with ("62190297" "07166366")   | JPO;<br>DERWENT                                       | OR               | ON      | 2007/03/22 11:20 |
| S3    | 6      | dwight near2 smith and lubricant  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/03/22 11:22 |
| S4    | 2      | ENVIROFUELS.as. and lubricant   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/03/22 11:28 |
| S5    | 112390 | lubrica\$4 and ((phosphate phosphorous) potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4"))                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/03/22 11:31 |
| S6    | 9861   | lubrica\$4 and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4"))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/03/22 11:32 |
| S9    | 1      | lubrica\$4.ab. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) and ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4") KH2PO4 K2HPO4) and (("NH.sub.4") near3 "HPO.sub.4") | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/03/22 11:37 |
| S8    | 1      | lubrica\$4.ab. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) and ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4")) and (("NH.sub.4") near3 "HPO.sub.4")               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/03/22 11:37 |

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|-----|-----|--|---|----|----|------------------|
| S10 | 1   | lubrica\$4.ab. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4")) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 11:38 |
| S12 | 33  | S11 and acetate  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 11:49 |
| S13 | 21  | S11 and acetate same (phosphorus phosphorous phosphate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 11:50 |
| S7  | 143 | lubrica\$4.ab. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4"))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 11:50 |
| S14 | 35  | S7 and ("148" "508").clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 11:51 |
| S16 | 1   | 10/768613  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 11:59 |
| S15 | 13  | S7 and ("148" "508").clas. and ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2 acetate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 11:59 |
| S11 | 47  | lubrica\$4 and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4"))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:01 |

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|     |    |   |   |    |    |                  |
|-----|----|---|---|----|----|------------------|
| S18 | 0  | S16 and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4"))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:09 |
| S17 | 3  | lubrica\$4.clm. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4"))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:11 |
| S21 | 47 | S19 and ("148" "508").clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:13 |
| S20 | 5  | lubrica\$4.clm. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4"))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:14 |
| S22 | 1  | lubrica\$4.clm. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4") and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:16 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S23 | 1   | lubrica\$4 and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4") and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" )                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:17 |
| S25 | 197 | lubrica\$4.clm. and (potassium adj (diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:19 |
| S19 | 416 | lubrica\$4.clm. and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:19 |
| S24 | 7   | lubrica\$4 and (potassium adj (phosphate diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4)) and (("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4") and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ammonium near2 acetate) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:23 |
| S27 | 1   | lubrica\$4 and (monobasic dibasic) near2 potassium near2 phosphate and (("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4") and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ammonium near2 acetate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:48 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S28 | 100 | lubrica\$4 and (monobasic dibasic) near2 potassium near2 phosphate and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ammonium near2 acetate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:50 |
| S26 | 3   | lubrica\$4 and (potassium adj (diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4) (monobasic dibasic)near2 potassium near2 phosphate) and (("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4") and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ammonium near2 acetate) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:53 |
| S29 | 0   | S28 and ("148" "508").clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:55 |
| S30 | 3   | lubrica\$4 and (potassium adj (diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4) (monobasic dibasic) with potassium with phosphate) and (("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4") and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ammonium near2 acetate)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:57 |
| S34 | 5   | S33 and ("148" "508").clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:58 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S33 | 189 | lubrica\$4 and (potassium adj (diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4) (monobasic dibasic) with potassium with phosphate) and ("NH.sub.4") near3 "HPO.sub.4" "[NH.sub.4].sub.2HPO.sub.4" ammonium adj (diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) (monobasic dibasic) with ammonium with phosphate) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:58 |
| S32 | 1   | S31 and ("148" "508").clas.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 12:58 |
| S35 | 1   | S31 and ("427" "428").clas.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 13:38 |
| S36 | 219 | lubrica\$4 same aluminum adj nitride   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:01 |
| S38 | 13  | S36 and ("148" "508").clas. and metal  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:02 |
| S37 | 13  | S36 and ("148" "508").clas.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:02 |
| S40 | 1   | (lubricat\$3 lubricant) and (ammonium adj acetate NH4C2H3O2)   | JPO   | OR | ON | 2007/03/22 14:12 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S31 | 682 | lubrica\$4 and (potassium adj (diphosphate dihydrogen adj phosphate monohydrogen adj phosphate) ("KH.sub.2PO.sub.4" "KH.sub.2" adj "PO.sub.4" "K.sub.2HPO.sub.4" "K.sub.2" adj "HPO.sub.4" KH2PO4 K2HPO4) (monobasic dibasic) with potassium with phosphate) and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ammonium near2 acetate) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:13 |
| S41 | 115 | ("148" "508").clas. and lubrica\$4 and ("NH.sub.4" near3 ("C.sub.2H.sub.3O.sub.2" "C.sub.2" adj "H.sub.3" adj "O.sub.2" C2H3O2) "[NH.sub.4]C.sub.2H.sub.3O.sub.2" ammonium near2 acetate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:18 |
| S42 | 3   | S41 and phosphate with (monobasic dibasic hydrogen dihydrogen)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:19 |
| S43 | 4   | S41 and (phosphate with (monobasic dibasic hydrogen dihydrogen) orthophosphate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:20 |
| S46 | 36  | S41 and (phosphate with (monobasic dibasic hydrogen dihydrogen) orthophosphate phosphate (dipotassium disodium diammonium) near2 phosphate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:21 |
| S45 | 42  | S41 and (phosphate with (monobasic dibasic hydrogen dihydrogen) orthophosphate phosphate dipotassium disodium diammonium)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:21 |
| S47 | 4   | wo with "9808919"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:46 |
| S44 | 36  | S41 and (phosphate with (monobasic dibasic hydrogen dihydrogen) orthophosphate phosphate)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/03/22 14:46 |